

METHOD FOR CONTROLLING STARTING OF AN ENGINE IN A HYBRID ELECTRIC VEHICLE POWERTRAIN

Abstract

A method for controlling starting of an internal combustion engine in a hybrid electric vehicle powertrain having multiple power flow paths to vehicle traction wheels from the engine and from an electric motor. A smoothness factor is calculated to determine how smooth an engine start should be. Engine operating variables regulate engine smoothness during engine start events as determined by the calculated smoothness factor appropriate for selected vehicle operating conditions.